

1977 INDEX

ALGOL			
Why So Many Computer Languages?	Stark	26	Feb
Algorithms (Programming)			
Stop Bugs Now!	Barry	106	Mar
Altair 680b			
Let's Hear It for the 680b	Curtis	30	Mar
Make Your 680b Smarter	Mitchell, Poole	102	Mar
SWTP 4K BASIC Notes	Mitchell, Poole	94	Aug
Altair 8800			
The "Kill a Byte" Standard	Walker	126	Feb
Build Your Own Interface	Smith	22	Jun
Beware the Altair Bus	Fuller	38	Oct
Heavy Duty Altair Power Supply	Hirschmann	50	Aug
Build a Universal I/O Board	Walters	102	Oct
Heavy Duty Power Supply	Cathey	78	Apr
Altair Bus (see Altair 8800 — Smith, Fuller)			
Analog-to-Digital Conversion			
Reliable Conversion Techniques	Adams	58	Nov
Only Five Senses	Borgerson	64	Mar
Digital Audio	Scott	82	Apr
AND/NAND Gates			
Is it High? — or Low?	Stark	56	May
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	70	Oct
Compleat Guide to Logic Diagrams	Lauffer	72	Dec
APL			
Why So Many Computer Languages?	Stark	26	Feb
Architecture (Microprocessors)			
Journey into the CPU	Leventhal	54	Mar
Well, Your Micro's Built	Leventhal	54	Jan
Microprogramming	Leventhal	120	Apr
Art			
Computerized Babysitter	Baker	130	Apr
Computer Turns Director	Clarke	34	Jul
Assemblers			
Welcome to Assembly Language Programming	Aronson	78	Jan
Practical Microcomputer Programming	Molnar	18	Mar
Talk Your Computer's Language!	Leventhal	34	Sep
Everything about Assemblers!	Leventhal	24	Nov
Authors' Guide			
Sooo, You Want to be an Author!	Young	90	Aug
BASIC			
Learn and Earn	Harvey	28	Oct
Sorting Routines	Rerko	34	Apr
Number Rounding Program	Inman	40	Apr
BASIC — The Easy Way	Gargiulo	64	Apr
SWTP 4K BASIC Notes	Mitchell, Poole	94	Aug
Digital Group MAXI-Basic	Howerton	78	Oct
Payroll Program	Harvey	106	Nov
Who Needs a Broker?	Haller	90	Dec
Practical Microcomputer Programming	Molnar	18	Mar
A New Approach to the 6800	Clarke	50	Mar
The Fun of Learning BASIC	Hemmye	120	Mar
Tiny BASIC	Pittman	34	Jan
BASIC Timing Comparisons	Rugg, Feldman	66	Jun
BASIC Timing Comparisons (updated)	Rugg, Feldman	20	Oct
Learn and Earn	Harvey	28	Oct
Why So Many Computer Languages?	Stark	26	Feb
Structured BASIC	Craig	122	Jan
Benchmarks			
BASIC Timing Comparisons	Rugg, Feldman	66	Jun
BASIC Timing Comparisons (updated)	Rugg, Feldman	20	Oct
Another Look at Benchmark Programs	Letwin	98	Nov
Magnetic Bubble Memory	Huss	54	Nov
The BYTEDESTROYER	Parks	65	Jun
Sorting Routines	Rerko	34	Apr
Simplified Billing System	Warren	94	Jun
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Binary Numbering System			
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Bubble Memory			
Magnetic Bubble Memory	Huss	54	Nov
Bus (refer to particular computer)			
Business Opportunities			
The Business Market	Badgett	52	Dec
Starting a Business?	Campbell	112	Sep
Making Money Is Nice	Green	118	Feb
Time for Timesharing?	Knecht	94	Oct
Your Image Counts!	Clarke	30	Nov
Salesmanship, Hardware and Coffee	Barbier	62	Nov
Business Programs			
Learn and Earn	Harvey	28	Oct
Computers in Golf	Haller	96	Jan
A Useful Loan Payment Program	Rugg, Feldman	68	Feb
Computerized Statements	Wilkinson	134	Feb
Cure Those End-of-Month Blues	Wilkinson	34	May
Simplified Billing System	Warren	94	Jun
Computerized Typesetting	Wilkinson	106	Jun
Interested in Commercial Programming?	Doliner	70	Nov
Payroll Program	Harvey	106	Nov
Payroll Program (Cont.)	Harvey	44	Dec
Calculators (see Games)			
Cassette Interfaces			
External Mass Storage	Childs, Clarke	98	Mar
The Gory Details of Cassette Storage	Boyle	116	Mar
The "Kill a Byte" Standard	Walker	126	Feb
Meet the Tarbell/KC Interface	Tarbell	44	Apr
Clocked Logic (Part 3)	Lancaster	24	May
A Clean Cassette	Mohler	76	Jun
Cassette Interface First Aid	Bourdeau	49	Jul
Tarbell Asynchronous Format	Gordon	98	Sep
Cassette I/O Format	McDonough, Hammontr	18	Aug
Hyper about Slow Load Times?	Butterfield	66	Nov
Clubs			
The Computer Club Promotional Techniques	Floto	30	Jun
Start a One-Man Computer Club	Brooner	106	Aug
COBOL			
Why So Many Computer Languages?	Stark	26	Feb
CMOS Logic			
Clocked Logic (Part 1)	Lancaster	110	Mar
Clocked Logic (Part 2)	Lancaster	22	Apr
Clocked Logic (Part 3)	Lancaster	24	May
Computer Assisted Instruction (CAI)			
7 x 9 = 56, Right?	Inman	110	Feb
Computerized Babysitter	Baker	130	Apr
Try WORDMATH!	Oglesby	90	Oct
The "Learning Machine"	Schumacher	62	Dec
Computer Stores			
Salesmanship, Hardware and Coffee	Barbier	62	Nov
The Business Market	Badgett	52	Dec
Construction Techniques			
Know Thyself!	Knecht	60	May
Interrupts Exposed (Part 2)	La Dage	78	May
Wire Wrapping	Brown	64	Jan
Control Code Decoding			
Decoding Device Control Codes	Hughes	97	Sep
Utilize ASCII Control Codes!	Wright	80	Oct
Dedicated Controllers	Myers	84	Oct
Using the "\$50" Terminal	Brown	88	Mar
Conventions			
Is it High? — or Low?	Stark	56	May
Software Exchange	Childs	44	Jan
Cassette I/O Format	McDonough, Hammontr	18	Aug
Debugging, Software (see Troubleshooting)			
Dedicated Controllers			
Dedicated Controllers	Myers	84	Oct
SC/MP Goes Baudot	Blish	110	Nov
Design Consoles			
Try a Design Console	Young	78	Jun
Super-Tester	Krieger	50	Apr
Digital Audio			
Digital Audio (Part 1)	Scott	82	Apr
Digital Audio (Part 2)	Scott	82	May
Digital Audio (Part 3)	Scott	74	Jul

1977 INDEX

ALGOL			
Why So Many Computer Languages?	Stark	26	Feb
Algorithms (Programming)			
Stop Bugs Now!	Barry	106	Mar
Altair 680b			
Let's Hear It for the 680b	Curtis	30	Mar
Make Your 680b Smarter	Mitchell, Poole	102	Mar
SWTP 4K BASIC Notes	Mitchell, Poole	94	Aug
Altair 8800			
The "Kill a Byte" Standard	Walker	126	Feb
Build Your Own Interface	Smith	22	Jun
Beware the Altair Bus	Fuller	38	Oct
Heavy Duty Altair Power Supply	Hirschmann	50	Aug
Build a Universal I/O Board	Walters	102	Oct
Heavy Duty Power Supply	Cathey	78	Apr
Altair Bus (see Altair 8800 — Smith, Fuller)			
Analog-to-Digital Conversion			
Reliable Conversion Techniques	Adams	58	Nov
Only Five Senses	Borgerson	64	Mar
Digital Audio	Scott	82	Apr
AND/NAND Gates			
Is it High? — or Low?	Stark	56	May
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	70	Oct
Compleat Guide to Logic Diagrams	Lauffer	72	Dec
APL			
Why So Many Computer Languages?	Stark	26	Feb
Architecture (Microprocessors)			
Journey into the CPU	Leventhal	54	Mar
Well, Your Micro's Built	Leventhal	54	Jan
Microprogramming	Leventhal	120	Apr
Art			
Computerized Babysitter	Baker	130	Apr
Computer Turns Director	Clarke	34	Jul
Assemblers			
Welcome to Assembly Language Programming	Aronson	78	Jan
Practical Microcomputer Programming	Molnar	18	Mar
Talk Your Computer's Language!	Leventhal	34	Sep
Everything about Assemblers!	Leventhal	24	Nov
Authors' Guide			
Sooo, You Want to be an Author!	Young	90	Aug
BASIC			
Learn and Earn	Harvey	28	Oct
Sorting Routines	Rerko	34	Apr
Number Rounding Program	Inman	40	Apr
BASIC — The Easy Way	Gargiulo	64	Apr
SWTP 4K BASIC Notes	Mitchell, Poole	94	Aug
Digital Group MAXI-Basic	Howerton	78	Oct
Payroll Program	Harvey	106	Nov
Who Needs a Broker?	Haller	90	Dec
Practical Microcomputer Programming	Molnar	18	Mar
A New Approach to the 6800	Clarke	50	Mar
The Fun of Learning BASIC	Hemmye	120	Mar
Tiny BASIC	Pittman	34	Jan
BASIC Timing Comparisons	Rugg, Feldman	66	Jun
BASIC Timing Comparisons (updated)	Rugg, Feldman	20	Oct
Learn and Earn	Harvey	28	Oct
Why So Many Computer Languages?	Stark	26	Feb
Structured BASIC	Craig	122	Jan
Benchmarks			
BASIC Timing Comparisons	Rugg, Feldman	66	Jun
BASIC Timing Comparisons (updated)	Rugg, Feldman	20	Oct
Another Look at Benchmark Programs	Letwin	98	Nov
Magnetic Bubble Memory	Huss	54	Nov
The BYTEDESTROYER	Parks	65	Jun
Sorting Routines	Rerko	34	Apr
Simplified Billing System	Warren	94	Jun
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Binary Numbering System			
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Bubble Memory			
Magnetic Bubble Memory	Huss	54	Nov
Bus (refer to particular computer)			
Business Opportunities			
The Business Market	Badgett	52	Dec
Starting a Business?	Campbell	112	Sep
Making Money Is Nice	Green	118	Feb
Time for Timesharing?	Knecht	94	Oct
Your Image Counts!	Clarke	30	Nov
Salesmanship, Hardware and Coffee	Barbier	62	Nov
Business Programs			
Learn and Earn	Harvey	28	Oct
Computers in Golf	Haller	96	Jan
A Useful Loan Payment Program	Rugg, Feldman	68	Feb
Computerized Statements	Wilkinson	134	Feb
Cure Those End-of-Month Blues	Wilkinson	34	May
Simplified Billing System	Warren	94	Jun
Computerized Typesetting	Wilkinson	106	Jun
Interested in Commercial Programming?	Doliner	70	Nov
Payroll Program	Harvey	106	Nov
Payroll Program (Cont.)	Harvey	44	Dec
Calculators (see Games)			
Cassette Interfaces			
External Mass Storage	Childs, Clarke	98	Mar
The Gory Details of Cassette Storage	Boyle	116	Mar
The "Kill a Byte" Standard	Walker	126	Feb
Meet the Tarbell/KC Interface	Tarbell	44	Apr
Clocked Logic (Part 3)	Lancaster	24	May
A Clean Cassette	Mohler	76	Jun
Cassette Interface First Aid	Bourdeau	49	Jul
Tarbell Asynchronous Format	Gordon	98	Sep
Cassette I/O Format	McDonough, Hammontr	18	Aug
Hyper about Slow Load Times?	Butterfield	66	Nov
Clubs			
The Computer Club Promotional Techniques	Floto	30	Jun
Start a One-Man Computer Club	Brooner	106	Aug
COBOL			
Why So Many Computer Languages?	Stark	26	Feb
CMOS Logic			
Clocked Logic (Part 1)	Lancaster	110	Mar
Clocked Logic (Part 2)	Lancaster	22	Apr
Clocked Logic (Part 3)	Lancaster	24	May
Computer Assisted Instruction (CAI)			
7 x 9 = 56, Right?	Inman	110	Feb
Computerized Babysitter	Baker	130	Apr
Try WORDMATH!	Oglesby	90	Oct
The "Learning Machine"	Schumacher	62	Dec
Computer Stores			
Salesmanship, Hardware and Coffee	Barbier	62	Nov
The Business Market	Badgett	52	Dec
Construction Techniques			
Know Thyself!	Knecht	60	May
Interrupts Exposed (Part 2)	La Dage	78	May
Wire Wrapping	Brown	64	Jan
Control Code Decoding			
Decoding Device Control Codes	Hughes	97	Sep
Utilize ASCII Control Codes!	Wright	80	Oct
Dedicated Controllers	Myers	84	Oct
Using the "\$50" Terminal	Brown	88	Mar
Conventions			
Is it High? — or Low?	Stark	56	May
Software Exchange	Childs	44	Jan
Cassette I/O Format	McDonough, Hammontr	18	Aug
Debugging, Software (see Troubleshooting)			
Dedicated Controllers			
Dedicated Controllers	Myers	84	Oct
SC/MP Goes Baudot	Blish	110	Nov
Design Consoles			
Try a Design Console	Young	78	Jun
Super-Tester	Krieger	50	Apr
Digital Audio			
Digital Audio (Part 1)	Scott	82	Apr
Digital Audio (Part 2)	Scott	82	May
Digital Audio (Part 3)	Scott	74	Jul

Digital Group				Glossaries: Jan p. 124, Feb 122, Mar 130, Apr 124, May 124, Jun 112, Sep 157			
The Gory Details of Cassette Storage	Boyle	116	Mar				
Super-Tube	Sommerfield	124	Mar				
What's that Digital Group Really Doing?	Craig	100	Jan				
Using an Invisible PROM	Regala	106	Sep				
Digital Group MAXI-Basic	Howerton	78	Oct				
Digital-to-Analog Conversion				Graphic Displays			
Interfacing the Analog World	Hogg	90	Apr	Computerized Babysitter	Baker	130	Apr
Clocked Logic (Part 3)	Lancaster	24	May	3D Computer Graphics	Artwick	50	Oct
Diodes				Hex-to-Decimal Conversion Routine			
KB Classroom, No. 7: transistors, diodes and op amps	Young	66	Dec	Hexdec	Hughes	105	Aug
Direct Memory Access (DMA)				Hexadecimal			
Build Your Own Interface	Smith	22	Jun	KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Displays				Home Applications Software			
Super-Tester	Krieger	50	Apr	Pass the Buck	Feldman, Rugg	90	Jul
KB Classroom, No. 2: gates and flip-flops explained	Young	98	Jun	Sobriety Tester Program	Gerbens	40	Aug
Education				Try a Do-All Program!	Miller	84	Aug
7 x 9 = 56, Right?	Inman	110	Feb	Lifetime Program	Lukas	34	Nov
Computers for Free!	Inman	42	Mar	Enhance Your Memory	Wantz	90	Nov
Super-Tester	Krieger	50	Apr	Who Needs a Broker?	Haller	90	Dec
Put a Micro in Your School	Dyk	38	Jun	Home Brew Systems			
Environmental Control				Introducing! The World's Cheapest Computer	Hogg	128	Jun
Try Solar Energy	Chamberlin	88	Jun	Humor			
EPROM Programmers				Computer Widow	Henderson	99	Jan
Build a \$20 EPROM Programmer	Laabs	70	Sep	My Friend is a Computer Junkie	Clarke	136	Jun
File Structures				IBM			
File Structures Simplified	Yulke	106	Dec	The Trouble with Mass Storage Systems	Childs, Clarke	60	Feb
Flip-Flops				8080 vs. 370	Barry	98	Feb
KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul	Floppy Disks	Hogg	70	Mar
Compleat Guide to Logic Diagrams	Lauffer	72	Dec	Imnai 8080			
Floppy Disks				The Slow-Stepping Debugger	Bendrot	60	Apr
Floppy Disks	Hogg	70	Mar	Now It's Imnai BASIC	Pereira	88	May
Formats				Put Your Imnai on the Rack!	Walters	42	Oct
Floppy Disks	Hogg	70	Mar	Information Retrieval			
Cassette I/O Format	McDonough, Hammontre	18	Aug	Try a Do-All Program!	Miller	84	Aug
Hyper about Slow Load Times?	Butterfield	66	Nov	Enhance Your Memory	Wantz	90	Nov
FOR-NEXT Techniques				Instruction Sets			
Payroll Program	Harvey	106	Nov	Understand Your Computer's Language	Leventhal	50	Jul
The Twelve Days of Christmas	Zimmerman	84	Dec	Understand Your Computer's Language (Part 2)	Leventhal	72	Aug
FORTRAN				Practical Microcomputer Programming (Part 1)	Molnar	50	Jan
Why So Many Computer Languages?	Stark	26	Feb	Interpreters			
Fundamentals				Practical Microcomputer Programming (Part 3)	Molnar	18	Feb
Journey into the CPU	Leventhal	54	Mar	Interrupts			
Floppy Disks	Hogg	70	Mar	Interrupts Exposed	La Dage	18	Apr
Everything about Semiconductor Memory	Stark	96	Apr	Fire!	Craig	108	Jan
Microprogramming	Leventhal	120	Apr	Interrupts Exposed (Part 2)	La Dage	78	May
Interrupts Exposed	La Dage	18	Apr	Understand Your Interrupts!	Hand	64	Oct
Interrupts Exposed (Part 2)	La Dage	78	May	Interviews			
A TVT For Your KIM	Lancaster	50	Jun	Structured BASIC	Craig	122	Jan
Understand Your Computer's Language	Leventhal	50	Jul	A Home Computer Pioneer	Clarke	132	May
Magnetic Bubble Memory	Huss	54	Nov	Computer Turns Director	Clarke	34	Jul
KB Classroom, No. 6: voltage, current and power supplies	Young	76	Nov	JK Flip-Flops			
KB Classroom, No. 7: transistors, diodes and op amps	Young	66	Dec	Clocked Logic (Part 1)	Lancaster	110	Mar
Games				KB Classroom, No. 3: JK flip-flops and clocked logic	Young	66	Jul
Computers in Golf	Haller	96	Jan	Compleat Guide to Logic Diagrams	Lauffer	72	Dec
Beware the Wumpus	Kasser	40	Feb	Kansas City Standard			
Chase!	DeMonstoy	48	Feb	The "Kill a Byte" Standard	Walker	126	Feb
Submarine!	Stark	70	Feb	Keyboards			
Found: A Use for Your Computer	Miller	80	Feb	Sophisticating a Surplus Keyboard	Sommerfield	86	Feb
At the Races	DeMonstoy	88	Feb	Solving Keyboard Interface Problems	Stark	72	Jun
How to Win \$25,000 of Your Own Money	Flemming	84	Mar	Build Your Own ASCII Keyboard	Brehm	22	Sep
HI-LO	Huffman	88	Apr	Utilize ASCII Control Codes!	Wright	80	Oct
Hangmath!	Feldman, Rugg	112	Apr	Kilobaud Classroom (Young)			
Bridging the Gap	Stanfield	90	May	No. 1: Getting the Ball Rolling		110	May
Adding "Plop" to Your System	Parks	98	May	No. 2: Gates and Flip-Flops Explained		96	Jun
Lunar Lander	Huffman	100	May	No. 3: JK Flip-Flops and Clocked Logic		66	Jul
Torpedoes Away!	Hanson	44	Jun	No. 4: PC Boards and Power Supplies		50	Sep
Artillery Practice	DeMonstoy	34	Jun	No. 5: Hardware Logical Functions		70	Oct
The Random Number Game	DeMonstoy	44	Jul	No. 6: Voltage, Current and Power Supplies		76	Nov
Pass the Buck	Feldman, Rugg	90	Jul	No. 7: Transistors, Diodes and Op Amps		66	Dec
Random Integer Program	Tubb	46	Aug	Try a Design Console		78	Jun
Enter the Audible Computer!	Stith	80	Aug	KIM-1			
Time Bomb Game	Culbertson	82	Aug	Found: A Use for Your Computer!	Miller	80	Feb
Baseball in BASIC	Doliner	100	Sep	The Gory Details of Cassette Storage	Boyle	116	Mar
Klinton Capture Game	Ferguson	108	Sep	KIM-1 Memory Expansion	Haas	74	Apr
Try WORDMATH!	Oglesby	90	Oct	Is the KIM-1 for Every-17?	Tripp	56	Aug
Son of Submarine Game	Smith, Marzano	102	Nov	Troubleshoot Your Software	Fish	112	Aug
The Twelve Days of Christmas	Zimmerman	84	Dec	Build a \$20 EPROM Programmer	Laabs	70	Sep
Crash Landing!	Borgerson	100	Dec	Dedicated Controllers	Myers	84	Oct

